848 Material Safety Data Sheet

Functional Group ID=**MS**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Material Safety Data Sheet Transaction Set (848) for use within an Electronic Data Interchange (EDI) environment. The transaction set can be used to communicate chemical characteristics, hazards, and precautions for the safe handling and use of a material. The transaction set is intended to convey the information required for a Material Safety Data Sheet (MSDS) as defined by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200 in the United States, and Workplace Hazardous Materials Information System (WHIMS) in Canada, and various state, province, and local requirements under right-to-know legislation.The MSDS provides the receiver with detailed information concerning material identity, emergency response, chemical and physical characteristics, toxicology, and industrial hygiene procedures.State and federal law dictate who is obligated to provide the MSDS and to whom it should be issued. In addition, third-party providers or others with no statutory obligation may voluntarily provide an MSDS to anyone.This transaction set allows for transmission of MSDS data in a structured, unstructured, or semi-structured form.CAUTION: With this transaction set, text format is critical due to the MSDS's primary role as a vehicle for hazards communication. The risk if this information is not transmitted clearly and accurately could be harmful to human life, harmful to the environment, could cause mishandling of product, could result in regulatory non-compliance, and could result in liability.Trading partners need to agree on how to interpret, store, and display/print MSDS text, especially text contained in the MSG and SD1 segments. For example, a sender may wish to format text so that one print line is mapped to one MSG segment. Segment terminator and data element delimiter characters shall not appear in any MSDS data.WARNING: Alteration of the original document will occur if the EDI translator or application software converts characters to uppercase. This may adversely affect the appearance, effectiveness, clarity, readability, and communicability of the printed MSDS document.

Notes:

1. Organizations use this transaction set to request a Material Safety Data Sheet (MSDS).

2. This transaction set may be used to request multiple MSDSs for items in the same solicitation or award instrument.

3. Requested MSDSs are to be submitted in the English language unless otherwise specified. If the MSDS is to be submitted in a language other than English, the language will be identified in BMS03. Use multiple transactions to request the MSDS in more than one language.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BMS	Beginning Segment For Material Safety Data Sheet	M	1		

				Req.		Loop	Notes and
Not Used	030	NTE	Note/Special Instruction	O		>1	
	040	REF	Reference Numbers	O		>1	
	050	DTM	Date/Time Reference	O		>1	
			LOOP ID - N1			>1	
Must Use	060	N1	Name	O		1	
Not Used	070	N2	Additional Name Information	O		>1	
Not Used	080	N3	Address Information	O		>1	
Not Used	090	N4	Geographic Location	O		1	
Not Used	100	REF	Reference Numbers	O		>1	
	110	PER	Administrative Communications Contact	O		>1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			999999	
Must Use	010	LIN	Item Identification	M	1		n1
	020	PID	Product/Item Description	O	>1		
			LOOP ID - MSS			>1	
Not Used	030	MSS	Material Safety Data Sheet Section Information	O	1		n2
Not Used	040	MEA	Measurements	O	>1		
Not Used	050	MSG	Message Text	O	>1		n3
			LOOP ID - SD1			>1	
Not Used	060	SD1	Safety Data	O	1		n4
Not Used	070	MEA	Measurements	O	>1		
Not Used	072	PKG	Marking, Packaging, Loading	O	>1		
Not Used	074	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	>1		
Not Used	080	MSG	Message Text	O	>1		n5
			LOOP ID - CID			>1	
Not Used	100	CID	Characteristic/Class ID	O	1		
Not Used	110	MEA	Measurements	M	>1		
			LOOP ID - LX			>1	
Not Used	115	LX	Assigned Number	O	1		
Not Used	120	CID	Characteristic/Class ID	O	1		
Not Used	130	MEA	Measurements	O	>1		
Not Used	140	STA	Statistics	O	1		
Not Used	150	TMD	Test Method	O	1		
Not Used	160	MSG	Message Text	O	>1		
			LOOP ID - SD1			>1	
Not Used	170	SD1	Safety Data	O	1		
Not Used	180	MEA	Measurements	O	>1		
Not Used	182	PKG	Marking, Packaging, Loading	O	>1		
Not Used	184	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	>1		
Not Used	190	MSG	Message Text	O	>1		
			LOOP ID - CID			>1	

Not Used	210	CID	Characteristic/Class ID	O	1		
Not Used	220	MEA	Measurements	M	>1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Not Used	010	CTT	Transaction Totals	O	1		n6
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. LIN loop is product level. MSS is section level. The first SD1 loop is safety data relating to the section only. The first CID loop is for complex measurements on safety data. LX loop is used to specify product characteristics, components, or complex measurements (i.e., those with environmental parameters). The second SD1 loop is safety data relating to a particular product characteristic or component. The second CID loop is for complex measurements on safety data, which related to a particular product characteristic or component.
2. Regulation notifications can be contained in MSS or SD1 or both.
3. Trading partners must agree on a convention for text processing that will not split words, and which can convey correct meaning, in successive SD1 or MSG segments.
4. Regulation notifications can be contained in MSS or SD1 or both.
5. Trading partners must agree on a convention for text processing that will not split words, and which can convey correct meaning, in successive SD1 or MSG segments.
6. The number of line items (CTT01) is the accumulation of the number of LIN segments. Hash total (CTT02) is not used in this transaction set.

Segment: **ST** **Transaction Set Header**

Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	**Transaction Set Identifier Code**	M ID 3/3

Code uniquely identifying a Transaction Set

    848   X12.36 Material Safety Data Sheet

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST02	329	**Transaction Set Control Number**	M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

A unique number assigned by the originator of the transaction set, or the originator's application program.

Segment:	**BMS** Beginning Segment For Material Safety Data Sheet	
Position:	020	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	Beginning of the Material Safety Data Sheet Transaction Set, to identify the distinct type of report and to transmit key identifying numbers and dates relating to that report	
Syntax Notes:		
Semantic Notes:	**1**	BMS02 specifies date the report is effective (YYMMDD).
	2	BMS04 specifies sender's report identifier.
	3	BMS05 is a number indicating the chronological sequence of this revision.
	4	BMS08 specifies the state or province for ultimate receipt of this report.
	5	BMS09 specifies the country for ultimate receipt of this report.
Comments:	**1**	If BMS01 is code "05" and BMS04 is used, then BMS06, if used, must identify the previous version of this report which is being replaced.
		If BMS01 is code "05" and BMS05 is used, then BMS07, if used, must identify the previous version of this report which is being replaced.
	2	BMS03 specifies the language of the text information in the Material Safety Data Sheet (MSDS).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	BMS01	353	**Transaction Set Purpose Code**	M	ID 2/2
			Code identifying purpose of transaction set		
			00 Original		
			Use to indicate an original request for an MSDS.		
			01 Cancellation		
			Use to indicate a cancellation of a previous request for an MSDS		
			07 Duplicate		
			Use to indicate a duplicate transmission of a previously transmitted request for an MSDS.		
Must Use	BMS02	373	**Date**	M	DT 6/6
			Date (YYMMDD)		
			Use to identify the date of the request		
	BMS03	819	**Language Code**	O	ID 2/3
			Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)		
			Use to identify a language other than English in which the requested MSDS is to be submitted.		

	BMS04	**127**	**Reference Number**	**O**	**AN 1/30**

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Use to provide a unique reference number that identifies this transaction set.

Not Used	**BMS05**	**691**	**Revision Number**	**O**	**N0 1/4**

A number which indicates the chronological sequence of revisions and updates to a ratemaking docket

Not Used	**BMS06**	**127**	**Reference Number**	**O**	**AN 1/30**

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Not Used	**BMS07**	**691**	**Revision Number**	**O**	**N0 1/4**

A number which indicates the chronological sequence of revisions and updates to a ratemaking docket

Not Used	**BMS08**	**156**	**State or Province Code**	**O**	**ID 2/2**

Code (Standard State/Province) as defined by appropriate government agency

Not Used	**BMS09**	**26**	**Country Code**	**O**	**ID 2/3**

Code identifying the country

Segment:	**REF** Reference Numbers
Position:	040
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying numbers.
Syntax Notes:	1 At least one of REF02 or REF03 is required.
Semantic Notes:	
Comments:	
Notes:	*Use this segment to provide reference numbers applicable to this request.*

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Reference Number Qualifier**	M ID 2/2

Code qualifying the Reference Number.

2G   Amendment

Use to indicate an amendment to a solicitation. When used, another REF segment must be transmitted citing code KS in REF01.

C4   Change Number

Use to cite the contract modification number, as required. When used, another REF segment must be transmitted citing code CT in REF01. If the modification is to a call, release or delivery order, additionally transmit a REF segment citing code DO in REF01.

CR   Customer Reference Number

Use to identify a control number other than a contract instrument. Cite the type of number in REF03.

CT   Contract Number

Use to indicate the award instrument number. This is always the Procurement Instrument Identification Number (PIIN) for DoD or an equivalent number for Civilian Agencies.

DO   Delivery Order Number

Use to indicate a call, release or delivery order number. When used, another REF segment must be transmitted citing code CT in REF01.

KS   Solicitation

A discreet number assigned by the purchasing activity to differentiate between different solicitations

		Use to indicate the solicitation number which contains the item for which the MSDS is requested.	
	PR	Price Quote Number	
		Use to indicate the contractor's price quote number applicable to the solicitation.	

REF02   **127**   **Reference Number**   **X   AN 1/30**

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Cite all numbers as continuous numbers without extraneous characters.

REF03   **352**   **Description**   **X   AN 1/80**

A free-form description to clarify the related data elements and their content

Use to identify the type of control number when REF01 is code CR.

Segment:		**DTM** Date/Time Reference	
Position:		050	
Loop:			
Level:		Heading	
Usage:		Optional	
Max Use:		>1	
Purpose:		To specify pertinent dates and times	
Syntax Notes:		1 At least one of DTM02 DTM03 or DTM06 is required.	
		2 If either DTM06 or DTM07 is present, then the other is required.	
Semantic Notes:			
Comments:			
Notes:		*Use this segment to identify the date by which the MSDS must be received. This segment can also be used to identify the date of issuance of a specific MSDS that is being requested.*	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	**Date/Time Qualifier**	**M ID 3/3**

Code specifying type of date or time, or both date and time

102	Issue

Use to indicate the date of issuance of a specific MSDS that is being requested.

106	Required By

Use to indicate the date by which the MSDS must be received.

600	As Of

Use only to indicate a request for a previous version of an MSDS when the exact date of preparation is unknown. The date represents a request for MSDSs prepared on or before the given date.

	Ref. Des.	Data Element	Name	Attributes
	DTM02	373	**Date**	**X DT 6/6**

Date (YYMMDD)

	Ref. Des.	Data Element	Name	Attributes
Not Used	DTM03	337	**Time**	**X TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

	Ref. Des.	Data Element	Name	Attributes
Not Used	DTM04	623	**Time Code**	**O ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the

			codes that follow		
	DTM05	**624**	**Century**	**O**	**N0 2/2**
			The first two characters in the designation of the year (CCYY)		
Not Used	**DTM06**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
			Code indicating the date format, time format, or date and time format		
Not Used	**DTM07**	**1251**	**Date Time Period**	**X**	**AN 1/35**
			Expression of a date, a time, or range of dates, times or dates and times		

Segment:	**N1** Name
Position:	060
Loop:	N1 Optional (Must Use)
Level:	Heading
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	1 At least one of N102 or N103 is required.
	2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
	2 N105 and N106 further define the type of entity in N101.
Notes:	*Two iterations of this loop are REQUIRED to identify the "From" party (requester) and the "To" party (recipient). Use additional iterations of this loop as needed to identify parties to receive the MSDS (if other than the "From" party).*

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/2**

Code identifying an organizational entity, a physical location, or an individual

FR	Message From

Use to indicate the party sending the request.

PK	Party to Receive Copy

Use to identify the recipient activities in addition to the requesting activity (Code FR).

TO	Message To

Use to indicate the party to whom the request is being sent.

ZD	Party to Receive Reports

The organization designated to receive reports

Use to identify the recipient activities if other than the requesting activity (Code FR). Do not provide copies to the requesting activity.

Not Used	**N102**	**93**	**Name**	**X**	**AN 1/35**

Free-form name

N103	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

While the federal EDI program uses the DUNS number, some

			government users of this implementation convention may require the use of other numbers for a transition period in order to cross reference existing data bases.		
		1	D-U-N-S Number, Dun & Bradstreet		
			Use of the DUNS or DUNS+4 number is preferred over any other coded number to identify an entity.		
		9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
			Use of the DUNS or DUNS+4 number is preferred over any other coded number to identify an entity.		
		10	Department of Defense Activity Address Code (DODAAC)		
			Use to indicate either a Department of Defense Activity Address Code or a Civilian Agency Activity Address Code.		
		33	Commercial and Government Entity (CAGE)		
		FI	Federal Taxpayer's Identification Number		
	N104	**67**	**Identification Code**	**X**	**AN 2/20**
			Code identifying a party or other code		
Not Used	**N105**	**706**	**Entity Relationship Code**	**O**	**ID 2/2**
			Code describing entity relationship		
Not Used	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/2**
			Code identifying an organizational entity, a physical location, or an individual		

Segment:	**PER** Administrative Communications Contact	
Position:	110	
Loop:	N1 Optional (Must Use)	
Level:	Heading	
Usage:	Optional	
Max Use:	>1	
Purpose:	To identify a person or office to whom administrative communications should be directed	
Syntax Notes:	1 If either PER03 or PER04 is present, then the other is required.	
	2 If either PER05 or PER06 is present, then the other is required.	
	3 If either PER07 or PER08 is present, then the other is required.	
Semantic Notes:		
Comments:		
Notes:	*When N101 is code FR, use to identify a contact to whom inquiries regarding this request can be directed.*	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**PER01**	366	**Contact Function Code**	**M**	**ID 2/2**

Code identifying the major duty or responsibility of the person or group named

    IC   Information Contact

	Ref. Des.	Data Element	Name		Attributes
	PER02	93	**Name**	**O**	**AN 1/35**

Free-form name

Use to indicate the name of the person or office. Last name first, followed by first name is preferred. If the whole name exceeds 35 characters, use the initial of the first name.

	Ref. Des.	Data Element	Name		Attributes
	PER03	365	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

    EM   Electronic Mail
    FX   Facsimile
    IT   International Telephone
    TE   Telephone

Use to indicate the commercial telephone number of the party cited in PER02.

	Ref. Des.	Data Element	Name		Attributes
	PER04	364	**Communication Number**	**X**	**AN 1/80**

Complete communications number including country or area code when applicable

1. When PER03 is code FX, IT, or TE, include the area code.

2. Cite all numbers, other than those qualified by code EM, as continuous numbers without extraneous characters.

	Ref. Des.	Data Element	Name		Attributes
	PER05	365	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

Use to identify a second communications number for the party cited in PER02. For example, if PER03/04 cites a commercial telephone number, PER05/06 can be used to cite an Electronic Mail address.

EM	Electronic Mail
EX	Telephone Extension

Use only if PER03 is code TE or IT.

FX	Facsimile
IT	International Telephone
TE	Telephone

Use to indicate the commercial telephone number of the party cited in PER02.

PER06   364   Communication Number   X   AN 1/80

Complete communications number including country or area code when applicable

1. When PER05 is code FX, IT, or TE, include the area code.

2. Cite all numbers, other than those qualified by code EM, as continuous numbers without extraneous characters.

PER07   365   Communication Number Qualifier   X   ID 2/2

Code identifying the type of communication number

Use to identify a third communications number for the party cited in PER02.

EM	Electronic Mail
EX	Telephone Extension

Use only if PER05 is code TE or IT.

FX	Facsimile
IT	International Telephone
TE	Telephone

Use to indicate the commercial telephone number of the party cited in PER02.

PER08   364   Communication Number   X   AN 1/80

Complete communications number including country or area code when applicable

1. When PER07 is code FX, IT, or TE, include the area code.

2. Cite all numbers, other than those qualified by code EM, as continuous numbers without extraneous characters.

PER09   443   Contact Inquiry Reference   O   AN 1/20

Additional reference number or description to clarify a contact number

Use, if necessary, to identify the title of the party cited in PER02.

Segment:	**LIN** Item Identification
Position:	010
Loop:	LIN Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify basic item identification data

Syntax Notes:

1 If either LIN04 or LIN05 is present, then the other is required.
2 If either LIN06 or LIN07 is present, then the other is required.
3 If either LIN08 or LIN09 is present, then the other is required.
4 If either LIN10 or LIN11 is present, then the other is required.
5 If either LIN12 or LIN13 is present, then the other is required.
6 If either LIN14 or LIN15 is present, then the other is required.
7 If either LIN16 or LIN17 is present, then the other is required.
8 If either LIN18 or LIN19 is present, then the other is required.
9 If either LIN20 or LIN21 is present, then the other is required.
10 If either LIN22 or LIN23 is present, then the other is required.
11 If either LIN24 or LIN25 is present, then the other is required.
12 If either LIN26 or LIN27 is present, then the other is required.
13 If either LIN28 or LIN29 is present, then the other is required.
14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes:

1 LIN01 is the line item identification

Comments:

1 See the Data Dictionary for a complete list of ID's.
2 LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Notes: *Use to identify the line item for which the MSDS is requested.*

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
LIN01	**350**	**Assigned Identification**	**O AN 1/11**

Alphanumeric characters assigned for differentiation within a transaction set

1. When applicable, use to identify the Contract Line Item Number (CLIN) or Subcontract Line Item Number (SUBCLIN), within the solicitation or award instrument, that identifies the item for which the MSDS is requested.

2. If a CLIN or SUBCLIN is not applicable, do not use this data element.

Must Use	**LIN02**	**235**	**Product/Service ID Qualifier**	**M ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

1. Use to identify the product for which the MSDS is requested.

2. Use one of the following codes in the LIN02/03 data element pair to identify the material. Use any code in subsequent data element pairs to further identify the material as needed.

A2	Department of Defense Identification Code (DoDIC)	
	Qualifies a code that uniquely identifies a type of explosive or ammunition	
BN	Bar-Coded Serial Number	
BP	Buyer's Part Number	
CN	Commodity Name	

Use to indicate a plain text name or description of the item.

CO	Chemical Abstract Service (CAS) Registry Number
FS	National Stock Number

The National Stock Number (NSN) shall be transmitted without dashes.

IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer

When used, cite the DUNS number of the manufacturer in the following data element.

MG	Manufacturer's Part Number

When used a second 235/234 pair must be used citing either code MF or ZB.

MN	Model Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)

A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit

UP	U.P.C. Consumer Package Code (1-5-5-1)
VB	Vendor's Engineering Change Level Number
VN	Vendor's (Seller's) Item Number
VP	Vendor's (Seller's) Part Number

Use to indicate a part number assigned by a contractor other than a manufacturer.

ZB	Commercial and Government Entity (CAGE) Code

A code that identifies a commercial contrator authorized to do business with the U.S. government

Use to indicate a manufacturer who can be identified by a CAGE code.

Must Use	**LIN03**	**234**	**Product/Service ID**	**M**	**AN 1/40**

Identifying number for a product or service

	LIN04	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

	LIN05	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

	LIN06	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

	LIN07	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

	LIN08	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

	LIN09	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

	LIN10	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

	LIN11	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

	LIN12	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

	LIN13	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

	LIN14	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

	LIN15	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

	LIN16	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

LIN17	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

LIN18	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

LIN19	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

LIN20	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

LIN21	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

LIN22	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

LIN23	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

LIN24	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

LIN25	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

LIN26	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

LIN27	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

LIN28	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

LIN29	**234**	**Product/Service ID**	**X**	**AN 1/40**

Identifying number for a product or service

LIN30	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 003050 Data Element Dictionary for acceptable code values.

LIN31   **234**   **Product/Service ID**   **X**   **AN 1/40**

Identifying number for a product or service

Segment:	**PID** Product/Item Description
Position:	020
Loop:	LIN Mandatory
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	**1** If PID04 is present, then PID03 is required.
	2 At least one of PID04 or PID05 is required.
	3 If PID07 is present, then PID03 is required.
	4 If PID08 is present, then PID03 is required.
Semantic Notes:	**1** Use PID03 to indicate the organization that publishes the code list being referred to.
	2 PID04 should be used for industry-specific product description codes.
	3 PID08 describes the physical characteristics of the product identified in PID04. A ``Y'' indicates that the specified attribute applies to this item. A ``N'' indicates it does not apply. Any other value is indeterminate.
Comments:	**1** If PID01 = ``F'', then PID05 is used. If PID01 = ``S'', then PID04 is used. If PID01 = ``X'', then both PID04 and PID05 are used.
	2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
	3 PID07 specifies the individual code list of the agency specified in PID03.
Notes:	*Use this segment only if the product applicable to the MSDS cannot be adequately identified by a code value cited in the LIN segment.*

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	PID01	349	**Item Description Type**	**M**	**ID 1/1**
			Code indicating the format of a description		
			F	Free-form	
	PID02	750	**Product/Process Characteristic Code**	**O**	**ID 2/3**
			Code identifying the general class of a product or process characteristic		
			08	Product	
				Use to indicate a complete set or kit. When used, provide a general description, including the intended use, of the set or kit in PID05.	
			09	Sub-product	
				Use to indicate a component of a kit and provide a description of the component in PID05.	
			SYN	Synonym	
				Use to indicate another name under which the product is sold.	
			TRN	Trade Name	
				Use to indicate the brand name under which the	

			product is sold.		
Not Used	**PID03**	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
Not Used	**PID04**	**751**	**Product Description Code**	**X**	**AN 1/12**
			A code from an industry code list which provides specific data about a product characteristic		
	PID05	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			Use to identify, in free form text, the product applicable to the requested MSDS.		
Not Used	**PID06**	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
			Code indicating the product surface, layer or position that is being described		
Not Used	**PID07**	**822**	**Source Subqualifier**	**O**	**AN 1/15**
			A reference that indicates the table or text maintained by the Source Qualifier		
Not Used	**PID08**	**1073**	**Yes/No Condition or Response Code**	**O**	**ID 1/1**
			Code indicating a Yes or No condition or response		

Segment:	**SE** **Transaction Set Trailer**	
Position:	020	
Loop:		
Level:	Summary	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).	
Syntax Notes:		
Semantic Notes:		
Comments:	**1** SE is the last segment of each transaction set.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	SE01	96	**Number of Included Segments**	**M**	**N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments		
Must Use	SE02	329	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			Cite the same number as the one cited in ST02.		